RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _09/870,884B_

Source: _1FW/6_

Date Processed by STIC: _10/26/05_

ENTERED

RAW SEQUENCE LISTING   DATE: 10/26/2005
PATENT APPLICATION: US/09/870,884B   TIME: 11:34:16

Input Set : **A:\Sequence Listing new 10-20-05.txt**
Output Set: **N:\CRF4\10262005\I870884B.raw**

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 3 <110> APPLICANT: Hoeg-Jensen, Thomas
 4        Havelund, Svend
 5        Markussen, Jan
 6        Ostergaard, Soren
 7        Ridderberg, Signe
 8        Balschmidt, Per
 9        Schaffer, Lauge
10        Jonassen, Ib
12 <120> TITLE OF INVENTION: Glucose Dependent Release of Insulin from Glucose Sensing
Insulin
13        Derivatives
15 <130> FILE REFERENCE: 6213.200-US
17 <140> CURRENT APPLICATION NUMBER: 09/870,884B
18 <141> CURRENT FILING DATE: 2001-05-31
20 <150> PRIOR APPLICATION NUMBER: US 60/213,375
21 <151> PRIOR FILING DATE: 2000-06-23
23 <150> PRIOR APPLICATION NUMBER: Denmark PA 2000 00858
24 <151> PRIOR FILING DATE: 2000-06-02
26 <160> NUMBER OF SEQ ID NOS: 18
28 <170> SOFTWARE: PatentIn version 3.3
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 21
32 <212> TYPE: PRT
33 <213> ORGANISM: Homo sapiens
35 <400> SEQUENCE: 1
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38 1               5                   10                  15
41 Glu Asn Tyr Cys Asn
42             20
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46 <211> LENGTH: 30
47 <212> TYPE: PRT
48 <213> ORGANISM: Homo sapiens
50 <400> SEQUENCE: 2
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53 1               5                   10                  15
56 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
57             20                  25                  30
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 30
62 <212> TYPE: PRT
63 <213> ORGANISM: Homo sapiens
65 <400> SEQUENCE: 3
67 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
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71  Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Asp Lys Thr
72             20                 25                 30
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76  <211> LENGTH: 30
77  <212> TYPE: PRT
78  <213> ORGANISM: Homo sapiens
80  <400> SEQUENCE: 4
82  Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
83  1                  5                  10                 15
86  Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Lys Pro Thr
87             20                 25                 30
90  <210> SEQ ID NO: 5
91  <211> LENGTH: 21
92  <212> TYPE: PRT
93  <213> ORGANISM: Homo sapiens
95  <400> SEQUENCE: 5
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98  1                  5                  10                 15
101 Glu Asn Tyr Cys Gly
102            20
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 30
107 <212> TYPE: PRT
108 <213> ORGANISM: Homo sapiens
110 <400> SEQUENCE: 6
112 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
113 1                  5                  10                 15
116 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Ile Lys Thr
117            20                 25                 30
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 21
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 7
127 Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
128 1                  5                  10                 15
131 Glu Asn Tyr Cys Asp
132            20
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 29
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
140 <400> SEQUENCE: 8
142 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
143 1                  5                  10                 15
146 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys
147            20                 25
150 <210> SEQ ID NO: 9
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151 <211> LENGTH: 30
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 9
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161 Leu Val Cys Gly Glu Arg Gly Phe Phe Phe Thr Pro Lys Thr
162             20                  25                  30
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166 <211> LENGTH: 30
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
171 <220> FEATURE:
172 <221> NAME/KEY: MISC_FEATURE
173 <222> LOCATION: (30)..(30)
174 <223> OTHER INFORMATION: x = ornithine
176 <400> SEQUENCE: 10
178 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
179 1               5                   10                  15
W--> 182 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Xaa
183             20                  25                  30
186 <210> SEQ ID NO: 11
187 <211> LENGTH: 30
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
192 <220> FEATURE:
193 <221> NAME/KEY: MISC_FEATURE
194 <222> LOCATION: (30)..(30)
195 <223> OTHER INFORMATION: x = diaminopropionic acid
197 <400> SEQUENCE: 11
199 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
200 1               5                   10                  15
W--> 203 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Xaa
204             20                  25                  30
207 <210> SEQ ID NO: 12
208 <211> LENGTH: 30
209 <212> TYPE: PRT
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 12
214 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
215 1               5                   10                  15
218 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Lys
219             20                  25                  30
222 <210> SEQ ID NO: 13
223 <211> LENGTH: 31
224 <212> TYPE: PRT
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 13
229 Pro Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu
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233 Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
234             20                   25                    30
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238 <211> LENGTH: 30
239 <212> TYPE: PRT
240 <213> ORGANISM: Homo sapiens
242 <400> SEQUENCE: 14
244 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
245 1               5                    10                    15
248 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Asp
249             20                   25                    30
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 30
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
257 <400> SEQUENCE: 15
259 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
260 1               5                    10                    15
263 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Glu
264             20                   25                    30
267 <210> SEQ ID NO: 16
268 <211> LENGTH: 30
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
273 <220> FEATURE:
274 <221> NAME/KEY: MISC_FEATURE
275 <222> LOCATION: (30)..(30)
276 <223> OTHER INFORMATION: x = O-aminoserine(BOC)
278 <400> SEQUENCE: 16
280 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
281 1               5                    10                    15
W--> 284 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Xaa
285             20                   25                    30
288 <210> SEQ ID NO: 17
289 <211> LENGTH: 30
290 <212> TYPE: PRT
291 <213> ORGANISM: Homo sapiens
294 <220> FEATURE:
295 <221> NAME/KEY: MISC_FEATURE
296 <222> LOCATION: (30)..(30)
297 <223> OTHER INFORMATION: x = diaminobutyric acid
299 <400> SEQUENCE: 17
301 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
302 1               5                    10                    15
W--> 305 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Xaa
306             20                   25                    30
309 <210> SEQ ID NO: 18
310 <211> LENGTH: 7
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      311 <212> TYPE: PRT
      312 <213> ORGANISM: homo sapien
      315 <220> FEATURE:
      316 <221> NAME/KEY: MISC_FEATURE
      317 <222> LOCATION: (4)..(4)
      318 <223> OTHER INFORMATION: Xaa=NBPhe
      320 <220> FEATURE:
      321 <221> NAME/KEY: MISC_FEATURE
      322 <222> LOCATION: (7)..(7)
      323 <223> OTHER INFORMATION: Xaa=Lys(lithocholoyl)
      325 <400> SEQUENCE: 18
W--> 327 Gly Phe Phe Xaa Thr Pro Xaa
      328 1               5
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/26/2005
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Input Set : **A:\Sequence Listing new 10-20-05.txt**
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; Xaa Pos. 30
Seq#:11; Xaa Pos. 30
Seq#:16; Xaa Pos. 30
Seq#:17; Xaa Pos. 30
Seq#:18; Xaa Pos. 4,7

VERIFICATION SUMMARY DATE: 10/26/2005
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Input Set : **A:\Sequence Listing new 10-20-05.txt**
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```
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:16
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
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